

Amendments to the Specification:

Please replace the paragraph beginning on page 2, line 14, with the following rewritten paragraph:

In each of the modes, a plane parallel to an electric field E is called an “E plane” and a plane parallel to a magnetic field H is called an “H plane”. In the examples of the TE mode of FIGS. 19A and 19B, a plane parallel to the XY plane is the E plane (FIG. 19A), and a plane parallel to the XZ plane is the H plane (FIG. 19B).

Please replace the paragraph beginning on page 12, line 20, with the following rewritten paragraph:

As shown in FIG. 1, ~~The~~ the waveguide 20 has ground electrodes 21 and 23 which face each other while sandwiching the dielectric substrate 12 and a plurality of through holes 22 as conductors for bringing the ground electrodes 21 and 23 into conduction. In the waveguide 20, electromagnetic waves propagate, for example, in an S direction in the diagram in a region surrounded by the ground electrodes 21 and 23 and the through holes 22. The waveguide 20 may have a configuration of a dielectric waveguide in which the electromagnetic wave propagation region is filled with a dielectric or a configuration of a cavity waveguide having therein a cavity. The through holes 22 are provided at intervals of a certain value or less (for example, 1/4 of a signal wavelength or less) so that the propagating electromagnetic waves are not leaked. The inner face of the through hole 22 is metalized. The sectional shape of the through hole 22 is not limited to a circular shape but may be another shape such as a polygon shape or an oval shape.

Please replace the paragraph beginning on page 14, line 19, with the following rewritten paragraph:

The configuration of the waveguide 40 shown in FIG. 2 is basically similar to that of the waveguide 20 in FIG. 1. As shown in FIG. 2, ~~The~~ the waveguide 40 has ground

electrodes 41 and 43 which face each other and a plurality of through holes 42 as conductors for bringing the ground electrodes 41 and 43 into conduction. Electromagnetic waves propagate, for example, in an S direction in the diagram in a region surrounded by the ground electrodes 41 and 43 and the through holes 42.

Please replace the paragraph beginning on page 25, line 18, with the following rewritten paragraph:

As shown in FIG. 13, The the waveguide 90 has ground electrodes 91 and 93 facing each other, and a plurality of through holes 92 as conductors for bringing the ground electrodes 91 and 93 into conduction. In a region surrounded by the ground electrodes 91 and 93 and the through holes 92, electromagnetic waves propagate in two modes. The through holes 92 are arranged in, for example, an almost square shape as a whole.